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(54) PRODUCTION OF HYALURONIDASE

(57) Abstract:

PURPOSE: A specific microorganism in Streptococcus is cultured in a medium to inexpensively produce, in an industrial scale, hyaluronidase which is used in cosmetics, medicines, reagents for research, and so on.

CONSTITUTION: A microorganism in group C of Streptococcus, such as Streptococcus dysgalactiae is

cultured in a medium containing carbon and nitrogen sources, 1W4wt% of Tod-Hewitt broth, 0.01W0.1wt% of hyaluronic acid and so on, at 6W7pH and 25W35°C for 1W2 days under weak aeration to accumulate hyaluronidase in the medium. The culture mixture is filtered and subjected to separation treatment to collect purified hyaluronidase which has a molecular weight of about 80,000, specifically acts on hyaluronic acid, but not other polysaccharides and heparin, optimally acts at a pH of 6W7, temperature of 35W45°C and shows temperature stability up to 40°C at 6pH for 15min.

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